

Analysis of "table1 (slmb primer cyt L)" a 20-mer DNA Oligonucleotide (Sense)

5' CAA CCT CAT CTG TCG TAA AC 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6101.0	Delta G Temperature	25.0 degrees C
Tm thermodynamic	56.4 degrees C	Probe concentration	0.6 pMol
Filter Tm	48.8 degrees C	Salt concentration	1000.0 mMol
% GC Tm	66.2 degrees C	Formamide concentration	0.0 %
AT+GC Tm	58.0 degrees C	3' End length	7 bases
Absorbance	5.3 nMol/A260	Run length	4 bases
Absorbance	32.5 ug/A260	Palindrome length	8 bases
Percent GC	45.0 %	Hairpin loop stem length	3 bases
Delta G	-28.7 kCal/Mol		
Delta H	-140.6 kCal/Mol		
Delta S	-368.0 eu		
3' End Delta G	-5.9 kCal/Mol		

Structural Analysis Summary	
Number of base runs	0 / 0
Number of hairpin loops	0
Number of dimers	0 / 0
Number of bulge loops	0 / 0
Number of internal loops	0 / 0

Analysis of "table 2 (slmb primer cyt H)" a 20-mer DNA Oligonucleotide (Antisense)

5' GCT CGG GCT GCT GCT GGA ATC TT 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6220.1	Delta G Temperature	25.0 degrees C
Tm thermodynamic	70.8 degrees C	Probe concentration	0.6 pMol
Filter Tm	63.2 degrees C	Salt concentration	1000.0 mMol
% GC Tm	72.3 degrees C	Formamide concentration	0.0 %
AT+GC Tm	64.0 degrees C	3' End length	7 bases
Absorbance	5.6 nMol/A260	Run length	4 bases
Percent GC	34.8 ug/A260	Palindrome length	8 bases
Delta G	60.0 %	Hairpin loop stem length	3 bases
Delta H	-37.5 kCal/Mol		
Delta S	-164.6 kCal/Mol		
3' End Delta G	-419.9 eu		
	-5.1 kCal/Mol		

Structural Analysis Summary	
Number of base runs	0 / 0
Number of hairpin loops	0 / 0
Number of dimers	0 / 0
Number of bulge loops	0 / 0
Number of internal loops	0 / 0

Analysis of "table 3 (slmb primer ITS2 F)" a 20-mer DNA Oligonucleotide (Sense)

5' ACT TGA CTG ACC TTC TTA CT 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6098.0	Delta G Temperature	25.0 degrees C
Tm thermodynamic	51.3 degrees C	Probe concentration	0.6 pMol
Filter Tm	43.7 degrees C	Salt concentration	1000.0 mMol
% GC Tm	64.2 degrees C	Formamide concentration	0.0 %
AT+GC Tm	56.0 degrees C	3' End length	7 bases
Absorbance	5.6 nMol/A260	Run length	4 bases
Percent GC	34.0 ug/A260	Palindromic length	8 bases
Delta G	40.0 %	Hairpin loop stem length	3 bases
Delta H	-26.5 kCal/Mol		
Delta S	-137.7 kCal/Mol		
3' End Delta G	-365.8 eu		
	-3.9 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops			0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 4 (slmb primer ITS2-H)" a 24-mer DNA Oligonucleotide (Antisense)

5' ATA CTC TGC GGA CAT ACT TGA CTG 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	7407.9	Delta G Temperature	25.0 degrees C
Tm thermodynamic	65.4 degrees C	Probe concentration	0.6 pMol
Filter Tm	57.8 degrees C	Salt concentration	1000.0 mMol
% GC Tm	72.2 degrees C	Formamide concentration	0.0 %
AT+GC Tm	70.0 degrees C	3' End length	0.7 bases
Absorbance	4.4 nMol/A260	Run length	4 bases
Absorbance	32.4 ug/A260	Palindrome length	8 bases
Percent GC	45.8 %	Hairpin loop stem length	3 bases
Delta G	-35.5 kCal/Mol		
Delta H	-169.5 kCal/Mol		
Delta S	-442.0 au		
3' End Delta G	-5.2 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops			0 / 0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 5 (slmb primer pro-L) " a 24-mer DNA Oligonucleotide (Sense)

5' **CAG TCT CGT CAA ACC AAG TCA AAC** 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	7354.9	Delta G Temperature	25.0 degrees C
Tm thermodynamic	67.8 degrees C	Probe concentration	0.6 pMol
Filter Tm	60.2 degrees C	Salt concentration	1000.0 mMol
% GC Tm	72.2 degrees C	Formamide concentration	0.0 %
AT+GC Tm	70.0 degrees C	3' End length	7 bases
Absorbance	4.3 nMol/A260	Run length	4 bases
Absorbance	31.4 ug/A260	Palindrome length	6 bases
Percent GC	45.8 %	Hairpin loop stem length	3 bases
Delta G	-36.5 kCal/Mol		
Delta H	-169.9 kCal/Mol		
Delta S	-439.7 eu		
3' End Delta G	-4.9 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 6 (slmb primer Dloop-H)" a 23-mer DNA Oligonucleotide (Antisense)

5' ATA ATC ATC CAG CAT AAA CAC AC 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	7033.7	Delta G Temperature	25.0 degrees C
Tm thermodynamic	61.2 degrees C	Probe concentration	0.6 pMol
Filter Tm	53.6 degrees C	Salt concentration	1000.0 mMol
% GC Tm	66.4 degrees C	Formamide concentration	0.0 %
AT+GC Tm	62.0 degrees C	3' End length	7 bases
Absorbance	4.3 nMol/A260	Run length	4 bases
Percent GC	30.0 ug/A260	Palindrome length	8 bases
Delta G	34.8 %	Hairpin loop stem length	3 bases
Delta H	-32.9 kcal/Mol		
Delta S	-163.3 kcal/Mol		
3' End Delta G	-429.7 eu		
	-4.6 kcal/Mol		

Structural Analysis Summary		
Number of base runs	/	palindromes
Number of hairpin loops	/	0 / 0
Number of dimers	/	2-oligo dimers
Number of bulge loops	/	2-oligo bulges
Number of internal loops	/	2-oligo internals
		0 / 0

Analysis of "table 7 (slmb primer ROD-L)" a 20-mer DNA Oligonucleotide (Sense)

5' CCT GGT AGA GTT CGC CGT CA 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6189.0	Delta G Temperature	25.0 degrees C
Tm thermodynamic	67.4 degrees C	Probe concentration	0.6 pMol
Filter Tm	59.8 degrees C	Salt concentration	1000.0 mMol
% GC Tm	72.3 degrees C	Formamide concentration	0.0 %
AT+GC Tm	64.0 degrees C	3' End length	7 bases
Absorbance	5.3 nMol/A260	Run length	4 bases
Absorbance	33.0 ug/A260	Palindromic length	8 bases
Percent GC	60.0 %	Hairpin loop stem length	3 bases
Delta G	-34.7 kCal/Mol		
Delta H	-154.3 kCal/Mol		
Delta S	-394.4 eu		
3' End Delta G	-9.6 kCal/Mol		

Structural Analysis Summary	
Number of base runs	0 / 0
Number of hairpin loops	0
Number of dimers	0 / 0
Number of bulge loops	0 / 0
Number of internal loops	0 / 0

Analysis of "table 8 (slmb primer ROD-H)" a 22-mer DNA Oligonucleotide(Antisense)

5' CGT GTT CCT TAT CAT TGT GCC T 3'

Oligonucleotide Analysis

Molecular weight 6739.4
 Tm thermodynamics
 Filter Tm
 % GC Tm
 AT+GC Tm
 Absorbance
 Absorbance
 Percent GC
 Delta G
 Delta H
 Delta S
 3' End Delta G

66.4 degrees C
 58.8 degrees C
 69.5 degrees C
 64.0 degrees C
 5.2 nMol/A260
 34.9 ug/A260
 45.5 %
 -35.4 kCal/Mol
 -165.0 kCal/Mol
 -427.3 eu
 -7.9 kCal/Mol

Analysis Parameters

Delta G Temperature 25.0 degrees C
 Probe concentration 0.6 pMol
 Salt concentration 1000.0 mMol
 Formamide concentration 0.0 %
 3' End length 7 bases
 Run length 4 bases
 Palindrome length 8 bases
 Hairpin loop stem length 3 bases

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 9 (LRMB primer 16S-L)" a 21-mer DNA Oligonucleotide (Sense)

5' **CAC CAG CCA AGT ATG TTT CTC** 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6421.2	Delta G Temperature	25.0 degrees C
Tm thermodynamic	61.5 degrees C	Probe concentration	0.6 pMol
Filter Tm	53.9 degrees C	Salt concentration	1000.0 mMol
% GC Tm	68.9 degrees C	Formamide concentration	0.0 %
AT+GC Tm	62.0 degrees C	3' End length	7 bases
Absorbance	5.1 nMol/A260	Run length	4 bases
Absorbance	33.0 ug/A260	Palindrome length	8 bases
Percent GC	47.6 %	Hairpin loop stem length	3 bases
Delta G	-31.9 kCal/Mol		
Delta H	-152.3 kCal/Mol		
Delta S	-396.4 eu		
3' End Delta G	-4.9 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 10 (LMB primer 16S-H)" a 18-mer DNA Oligonucleotide (Antisense)

5' **TCG TAG TTC AGC AGT CAG** 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	5594.7	Delta G Temperature	25.0 degrees C
Tm thermodynamic	51.2 degrees C	Probe concentration	0.6 pMol
Filter Tm	43.6 degrees C	Salt concentration	1000.0 mMol
% GC Tm	64.5 degrees C	Formamide concentration	0.0 %
AT+GC Tm	54.0 degrees C	3' End length	7 bases
Absorbance	5.7 nmol/A260	Run length	4 bases
Absorbance	31.8 ug/A260	Palindrome length	8 bases
Percent GC	50.0 %	Hairpin loop stem length	3 bases
Delta G	-25.3 kcal/Mol		
Delta H	-123.0 kcal/Mol		
Delta S	-320.5 eu		
3' End Delta G	-4.9 kcal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 11 (LRM primer 12S-L)" a 19-mer DNA Oligonucleotide (Sense)

5' CTA TTC GCC TCG CTC AGA C 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	5779.8	Delta G Temperature	25.0 degrees C
Tm thermodynamic	62.1 degrees C	Probe concentration	0.6 pMol
Filter Tm	54.5 degrees C	Salt concentration	1000.0 mMol
% GC Tm	69.7 degrees C	Formamide concentration	0.0 %
AT+GC Tm	60.0 degrees C	3' End length	7 bases
Absorbance	6.0 nMol/A260	Run length	4 bases
Absorbance	34.6 ug/A260	Palindrome length	8 bases
Percent GC	57.9 %	Hairpin loop stem length	3 bases
Delta G	-31.8 kCal/Mol		
Delta H	-146.6 kCal/Mol		
Delta S	-378.6 eu		
3' End Delta G	-4.6 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 12 (LRMB primer 12S-H)" a 23-mer DNA Oligonucleotide (Antisense)

5' GCC TCC ATC ATC ATC CCT CAC CTT AC 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6895.5	Delta G Temperature	25.0 degrees C
Tm thermodynamic	70.8 degrees C	Probe concentration	0.6 pMol
Filter Tm	63.2 degrees C	Salt concentration	1000.0 mMol
% GC Tm	75.3 degrees C	Formamide concentration	0.0 %
AT+GC Tm	72.0 degrees C	3' End length	7 bases
Absorbance	5.1 nMol/A260	Run length	4 bases
Absorbance	34.9 ug/A260	Palindrome length	8 bases
Percent GC	56.5 %	Hairpin loop stem length	3 bases
Delta G	-38.9 kCal/Mol		
Delta H	-174.6 kCal/Mol		
Delta S	-448.9 eu		
3' End Delta G	-5.1 kCal/Mol		

Structural Analysis Summary		
Number of base runs	/ palindromes	0 / 0
Number of hairpin loops	/ 2-oligo dimers	0 / 0
Number of dimers	/ 2-oligo bulges	0 / 0
Number of bulge loops	/ 2-oligo internals	0 / 0
Number of internal loops	/ 2-oligo internals	0 / 0

Analysis of "table 13 (DTMB primer 16S-H)" a 20-mer DNA Oligonucleotide (Antisense)

5' CTC CGT CCG TCT CGC CTC TG 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6052.0	Delta G Temperature	25.0 degrees C
Tm thermodynamic	71.7 degrees C	Probe concentration	0.6 pMol
Filter Tm	64.1 degrees C	Salt concentration	1000.0 mMol
% GC Tm	76.4 degrees C	Formamide concentration	0.0 %
AT+GC Tm	68.0 degrees C	3' End length	7 bases
Absorbance	6.1 nMol/A260	Run length	4 bases
Absorbant GC	37.2 ug/A260	Palindrone length	8 bases
Percent GC	70.0 %	Hairpin loop stem length	3 bases
Delta G	-37.1 kCal/Mol		
Delta H	-157.8 kCal/Mol		
Delta S	-398.9 eu		
3' End Delta G	-7.9 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 14 (DMB primer 16S-L)" a 22-mer DNA Oligonucleotide (Sense)

5' AAA TCC GCC CTT ATG TGT GTT C 3'

Oligonucleotide Analysis				Analysis Parameters			
Molecular weight	6756.4	degrees C	Delta G Temperature	25.0	degrees C		
Tm thermodynamic	67.9	degrees C	Probe concentration	0.6	pMol		
Filter Tm	60.3	degrees C	Salt concentration	1000.0	mMol		
% GC Tm	69.5	degrees C	Formamide concentration	0.0	%		
AT+GC Tm	64.0	degrees C	3' End length	7	bases		
Absorbance	4.9	nMol/A260	Run length	4	bases		
Absorbance	33.3	ug/A260	Palindrome length	8	bases		
Percent GC	45.5	%	Hairpin loop stem length	3	bases		
Delta G	-36.9	kCal/Mol					
Delta H	-171.5	kCal/Mol					
Delta S	-444.2	eu					
3' End Delta G	-4.9	kCal/Mol					

Structural Analysis Summary			
Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 15 (DMB primer 12S-H)" a 22-mer DNA Oligonucleotids(Antisense)

5' CAT CGG CTT GCT CTA TTC CTT G 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6723.4	Delta G Temperature	25.0 degrees C
Tm thermodynamic	68.8 degrees C	Probe concentration	0.6 pMol
Filter Tm	61.2 degrees C	Salt concentration	1000.0 mMol
% GC Tm	71.3 degrees C	Formamide concentration	0.0 %
AT+GC Tm	66.0 degrees C	3' End length	7 bases
Absorbance	5.3 nMol/A260	Run length	4 bases
Absorbance	35.5 ug/A260	Palindrome length	8 bases
Percent GC	50.0 %	Hairpin loop stem length	3 bases
Delta G	-37.5 kCal/Mol		
Delta H	-172.0 kCal/Mol		
Delta S	-444.3 eu		
3' End Delta G	-7.0 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 16 (DMB primer 12S-L)" a 19-mer DNA Oligonucleotide (Sense)

5' TCT ATC GGC GGC GTA TCA C 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	5859.8	Delta G Temperature	25.0 degrees C
Tm thermodynamic	65.8 degrees C	Probe concentration	0.6 pMol
Filter Tm	58.2 degrees C	Salt concentration	1000.0 mMol
% GC Tm	69.7 degrees C	Formamide concentration	0.0 %
AT+GC Tm	60.0 degrees C	3' End length	7 bases
Absorbance	5.7 nMol/A260	Run length	4 bases
Absorbance	33.4 ug/A260	Palindrome length	8 bases
Percent GC	57.9 %	Hairpin loop stem length	3 bases
Delta G	-33.9 kCal/Mol		
Delta H	-152.5 kCal/Mol		
Delta S	-391.2 eu		
3' End Delta G	-3.5 kCal/Mol		

Structural Analysis Summary			
Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 17 (TCMB primer 16S-H)" a 21-mer DNA Oligonucleotide (Antisense)
 5' **GGC GAT TCT ACG GCA CGG GCG** 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6568.3	Delta G Temperature	25.0 degrees C
Tm thermodynamic	80.4 degrees C	Probe concentration	0.6 pMol
Filter Tm	72.8 degrees C	Salt concentration	1000.0 mMol
% GC Tm	78.6 degrees C	Formamide concentration	0.0 %
AT+GC Tm	72.0 degrees C	3' End length	7 bases
Absorbance	5.1 nMol/A260	Run length	4 bases
Percent GC	33.3 ug/A260	Palindromic length	8 bases
Delta G	71.4 %	Hairpin loop stem length	3 bases
Delta H	-44.7 kCal/Mol		
Delta S	-186.4 kCal/Mol		
3' End Delta G	-468.6 eu		
	-12.8 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 18 (TCMB primer 16S-L)" a 22-mer DNA Oligonucleotide (Sense)

5' AAA CTG CTC CTC AAC TAT GTC A 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6758.5	Delta G Temperature	25.0 degrees C
Tm thermodynamic	60.7 degrees C	Probe concentration	0.6 pMol
Filter Tm	53.1 degrees C	Salt concentration	1000.0 mMol
% GC Tm	67.6 degrees C	Formamide concentration	0.0 %
AT+GC Tm	62.0 degrees C	3' End length	7 bases
Absorbance	4.7 nMol/A260	Run length	4 bases
Absorbance	31.7 ug/A260	Palindrome length	8 bases
Percent GC	40.9 %	Hairpin loop stem length	3 bases
Delta G	-31.7 kCal/Mol		
Delta H	-153.3 kCal/Mol		
Delta S	-400.5 eu		
3' End Delta G	-4.1 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 19 (TCM primer 12S-H)" a 22-mer DNA Oligonucleotide (Antisense)

5' CCG ATT CAG CCA CGA TTC CCT C 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6671.4	Delta G Temperature	25.0 degrees C
Tm thermodynamic	74.6 degrees C	Probe concentration	0.6 pMol
Filter Tm	67.0 degrees C	Salt concentration	1000.0 mMol
% GC Tm	75.0 degrees C	Formamide concentration	0.0 %
AT+GC Tm	70.0 degrees C	3' End length	7 bases
Absorbance	5.1 nMol/A260	Run length	4 bases
Absorbance	34.2 ug/A260	Palindromic length	8 bases
Percent GC	59.1 %	Hairpin loop stem length	3 bases
Delta G	-40.8 kCal/Mol		
Delta H	-176.0 kCal/Mol		
Delta S	-447.5 eu		
3' End Delta G	-7.9 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 20 (TCM primer 12S-L)" a 21-mer DNA Oligonucleotide (Sense)

5' CCT AAA GCC CAG ATA ACT ACA 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6432.3	Delta G Temperature	25.0 degrees C
Tm thermodynamic	59.2 degrees C	Probe concentration	0.6 pMol
Filter Tm	51.6 degrees C	Salt concentration	1000.0 mMol
% GC Tm	66.9 degrees C	Formamide concentration	0.0 %
AT+GC Tm	60.0 degrees C	3' End length	7 bases
Absorbance	4.8 nMol/A260	Run length	4 bases
Absorbance	30.6 ug/A260	Palindrome length	8 bases
Percent GC	42.9 %	Hairpin loop stem length	3 bases
Delta G	-31.7 kCal/Mol		
Delta H	-159.4 kCal/Mol		
Delta S	-421.0 eu		
3' End Delta G	-3.9 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 21 (PCMB primer 16S-H)" a 22-mer DNA Oligonucleotide (Antisense)

5' CGT GTT CTG ATG ATG ATG TGC T 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6867.5	Delta G Temperature	25.0 degrees
Tm thermodynamic	64.7 degrees C	Probe concentration	0.6 pMol
Filter Tm	57.1 degrees C	Salt concentration	1000.0 mMol
% GC Tm	69.5 degrees C	Formamide concentration	0.0 %
AT+GC Tm	64.0 degrees C	3' End length	7 bases
Absorbance	4.9 nMol/A260	Run length	4 bases
Percent GC	33.4 ug/A260	Palindrome length	8 bases
Delta G	45.5 %	Hairpin loop stem length	3 bases
Delta H	-33.0 kCal/Mol		
Delta S	-150.2 kCal/Mol		
3' End Delta G	-385.9 eu		
	-6.3 kCal/Mol		

Structural Analysis Summary

Number of base runs	/ palindromes	0 / 0
Number of hairpin loops		0
Number of dimers	/ 2-oligo dimers	0 / 0
Number of bulge loops	/ 2-oligo bulges	0 / 0
Number of internal loops	/ 2-oligo internals	0 / 0

Analysis of "table 22 (PCMB primer 16S-L)" a 19-mer DNA Oligonucleotide (Sense)

5' ATT CCT TCC TCT TAG TAT G 3'

Oligonucleotide Analysis				Analysis Parameters			
Molecular weight	5799.8	Delta G Temperature	25.0 degrees C	Probe concentration	0.6 pMol		
Tm thermodynamic	49.5 degrees C	Salt concentration	1000.0 mMol	Formamide concentration	0.0 %		
Filter Tm	41.9 degrees C	3' End length	Run length	Palindrome length	7 bases		
% GC Tm	61.1 degrees C	33.6 nMol/A260	36.8 %	Hairpin loop stem length	4 bases		
AT+GC Tm	52.0 degrees C	-26.1 kcal/Mol	-138.8 kcal/Mol		8 bases		
Absorbance	33.6 ug/A260	-371.5 eu	-3.1 kcal/Mol		3 bases		
Absorbance							
Percent GC							
Delta G							
Delta H							
Delta S							
3' End Delta G							

Structural Analysis Summary			
Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 23 (PCMB primer 12S-H)" a 22-mer DNA Oligonucleotide (Antisense)

5' GCT GAA CTT ACT ATG CCC TAC T 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6725.4	Delta G Temperature	25.0 degrees C
Tm thermodynamic	60.3 degrees C	Probe concentration	0.6 pMol
Filter Tm	52.7 degrees C	Salt concentration	1000.0 mMol
4 GC Tm	59.5 degrees C	Formamide concentration	0.0 %
AT+GC Tm	64.0 degrees C	3' End length	0.7 bases
Absorbance	5.0 nMol/A260	Run length	4 bases
Absorbance	33.6 ug/A260	Palindrome length	8 bases
Percent GC	45.5 %	Hairpin loop stem length	3 bases
Delta G	-32.7 kCal/Mol		
Delta H	-164.7 kCal/Mol		
Delta S	-435.2 eu		
3' End Delta G	-6.6 kCal/Mol		

Structural Analysis Summary	
Number of base runs	0 / 0
Number of hairpin loops	0
Number of dimers	0 / 0
Number of bulge loops	0 / 0
Number of internal loops	0 / 0

Analysis of "table 24 (PCMB primer 12S-L)" a 20-mer DNA Oligonucleotide (Sense)

5' **CCG ATT GAC GCC GAA CTA TG** 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6182.1	Delta G Temperature	25.0 degrees C
Tm thermodynamic	68.1 degrees C	Probe concentration	0.6 pMol
Filter Tm	60.5 degrees C	Salt concentration	1000.0 mMol
* GC Tm	70.3 degrees C	Formamide concentration	0.0 %
AT+GC Tm	62.0 degrees C	3' End length	7 bases
Absorbance	5.3 nMol/A260	Run length	9 bases
Percent GC	32.5 ug/A260	Palindromic length	8 bases
Delta G	55.0 %	Hairpin loop stem length	3 bases
Delta H	-35.6 kCal/Mol		
Delta S	-159.4 kCal/Mol		
3' End Delta G	-408.5 eu		
	-4.1 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 25 (SIMB primer 16S-H)" a 18-mer DNA Oligonucleotide (Antisense)

5' **TAC GCA TAA CGG CTC TGG** 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	5579.7	Delta G Temperature	25.0 degrees C
Tm thermodynamic	61.4 degrees C	Probe concentration	0.6 pMol
Filter Tm	53.8 degrees C	Salt concentration	1000.0 mMol
% GC Tm	66.8 degrees C	Formamide concentration	0.0 %
AT+GC Tm	56.0 degrees C	3' End length	7 bases
Absorbance	5.9 nMol/A260	Run length	4 bases
Absorbance	32.8 ug/A260	Palindrome length	8 bases
Percent GC	55.6 %	Hairpin loop stem length	3 bases
Delta G	-31.0 kCal/Mol		
Delta H	-143.5 kCal/Mol		
Delta S	-370.2 eu		
3' End Delta G	-7.9 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops			0
Number of dimers	/	2-oligo dimers	0 / 0
Number of bulge loops	/	2-oligo bulges	0 / 0
Number of internal loops	/	2-oligo internals	0 / 0

Analysis of "table 26 (SLMB primer 16S-L)" a 22-mer DNA Oligonucleotide (Sense)

5' CTA CTA CAC CTC AAC TAC ATC T 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6638.4	Delta G Temperature	25.0 degrees C
Tm thermodynamic	52.4 degrees C	Probe concentration	0.6 pMol
Filter Tm	44.8 degrees C	Salt concentration	1000.0 mMol
% GC Tm	67.6 degrees C	Formamide concentration	0.0 %
AT+GC Tm	62.0 degrees C	3' End length	7 bases
Absorbance	4.9 nMol/A260	Run length	4 bases
Percent GC	32.8 ug/A260	Palindromic length	8 bases
Delta G	40.9 %	Hairpin loop stem length	3 bases
Delta H	-27.6 kCal/Mol		
Delta S	-146.8 kCal/Mol		
3' End Delta G	-392.2 eu		
	-3.8 kCal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 27 (SIMB primer 12S-H)" a 19-mer DNA Oligonucleotide (Antisense)

5' CCC ACT CAC TGC TAA CTC C 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	5708.8	Delta G Temperature	25.0 degrees C
Tm thermodynamic	58.4 degrees C	Probe concentration	0.6 pMol
Filter Tm	50.8 degrees C	Salt concentration	1000.0 mMol
% GC Tm	69.7 degrees C	Formamide concentration	0.0 %
AT+GC Tm	60.0 degrees C	Run length	7 bases
Absorbance	6.1 nMol/A260	3' End length	4 bases
Absorbance	35.0 ug/A260	Palindrome length	8 bases
Percent GC	57.9 %	Hairpin loop stem length	3 bases
Delta G	-29.4 kcal/Mol		
Delta H	-138.5 kcal/Mol		
Delta S	-359.0 eu		
3' End Delta G	-5.4 kcal/Mol		

Structural Analysis Summary

Number of base runs	/	palindromes	0 / 0
Number of hairpin loops	/	2-oligo dimers	0 / 0
Number of dimers	/	2-oligo bulges	0 / 0
Number of bulge loops	/	2-oligo internals	0 / 0
Number of internal loops	/		

Analysis of "table 28 (SIMB primer 12S-L)" a 21-mer DNA Oligonucleotide (Sense)

5' GGC TAA CTA CAA TCA TCT GCT 3'

Oligonucleotide Analysis		Analysis Parameters	
Molecular weight	6445.2	Delta G Temperature	25.0 degrees C
Tm thermodynamic	58.5 degrees C	Probe concentration	0.6 pMol
Filter Tm	50.9 degrees C	Salt concentration	1000.0 mMol
% GC Tm	66.9 degrees C	Formamide concentration	0.0 %
AT+GC Tm	60.0 degrees C	3' End length	7 bases
Absorbance	5.1 nMol/A260	Run length	4 bases
Percent GC	32.6 ug/A260	Palindrome length	8 bases
Delta G	42.9 %	Hairpin loop stem length	3 bases
Delta H	-30.8 kCal/Mol		
Delta S	-153.4 kCal/Mol		
3' End Delta G	-403.9 eu		
	-6.3 kCal/Mol		

Structural Analysis Summary	
Number of base runs	0 / 0
Number of hairpin loops	0
Number of dimers	0 / 0
Number of bulge loops	0 / 0
Number of internal loops	0 / 0
Number of 2-oligo dimers	0 / 0
Number of 2-oligo bulges	0 / 0
Number of 2-oligo internals	0 / 0